

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A light source system, comprising two or more red color light emitting diodes; two or more blue color light emitting diodes; two ore more green color light emitting diodes; wherein said red color emitting diodes, said blue color emitting diodes and said green color emitting diodes are with different light emitting colors arranged at a predetermined ratio of quantities of diodes on a spherical curved surface; a mixer for projecting two or more incident monochromatic lights as a light mixed with said monochromatic lights; a cone shaped light source cover for covering said light emitting diodes and for mounting said mixer at a vertex of said light source cover; and a light emission controller for controlling the number of light emitting diodes of each color that are turned on said ratio of quantities of diodes is determined based on light emitting status for each diode of each color so that a projected light has chromaticity of a desired color, and total quantity of said light emitting diodes is set so as to satisfy said ratio of quantities of diodes.

2. (Cancelled)

3. (Currently amended) A light source system according to claim 1, wherein said

spherical curved surface where said light emitting diodes are arranged at the predetermined ratio of quantities of diodes ~~is~~ light emitting diodes are arranged on an elliptical surface of rotation or ~~on~~ a parabolic surface of rotation.

4. (Cancelled)

5. (Currently amended) A light source system according to claim 1 [[4]], wherein said light emitting diodes are arranged on concentric ~~and~~ multiple circles ~~comprise circles~~, wherein light emitting diodes with different light emitting colors are arranged.

6. (Currently amended) A light source system according to claim 1 [[4]], wherein said light emitting diodes are arranged on concentric multiple circles ~~comprise circles~~, wherein light emitting diodes of the same light emitting color are arranged on each circle.

7. (Currently amended) A light source system according to claim 1, wherein said light emission controller controls lightness by controlling the number of diodes that are turned-on at the predetermined ratio of quantities, and said light emission controller controls color by controlling the number of light emitting diodes that are turned-on light emission of the light emitting diodes is controlled for each different color.

8. (Cancelled)

9. (Currently amended) A light source system according to claim 1 &, further comprising
a lens unit which has condenser lenses, wherein each of said wherein each of said light
guiding means is a condenser lens lenses is opposite corresponding to each of said
light emitting diodes arranged on said spherical curved surface on a 1:1 basis, and said
lens unit converges light beams to said mixer.

10. (Cancelled)